



Grand Valley State University
Disability Support Resources

Guide to Assistive Technology

GVSU MAGic 11 Quick Reference Guide

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MAGic Screen Magnifier by Freedom Scientific provides screen magnification and visual enhancements to provide computer access to individuals who have visual impairments. MAGic integrates with JAWS for Windows, a screen reader designed to allow computer access to users who are blind. JAWS supplements MAGic with screen reading capabilities to allow nearly complete computer access to individuals who are blind or who have a visual impairment.

In this quick reference guide to MAGic 11, both mouse and keyboard (HotKey) commands are listed for navigating through various functions and settings. MAGic menu item ALT-key shortcuts are referenced.

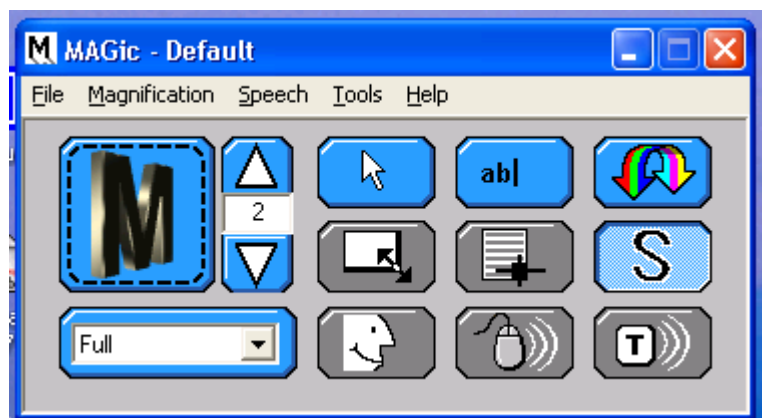
This is a quick reference guide to MAGic 11, and is not intended as a comprehensive user's manual.

MAGic can be launched in the GVSU lab environment by double-clicking the desktop icon, or by pressing Alt + Control + M, or by opening the Start Menu (Windows Key + Tab + Enter) select Programs, Select MAGic, choose MAGic. MAGic can be launched on a home computer in the same way. To quit MAGic click the Close Application button, or by the File menu command Alt-F-X, or by using the hotkey Alt-F4.

The MAGic key, which is referenced throughout this guide, is the CapsLock key.

The MAGic user interface allows easy control of MAGic's features via menu commands or by using a mouse.

The MAGic User Interface Window



In the GVSU lab environment speech functions are not available directly from MAGic. Speech is provided by the JAWS screen reader. JAWS must be run simultaneously with MAGic in order for speech to be available.

MAGic interface

The MAGic interface window displays buttons and menus for controlling MAGic. The top two rows of buttons control visual enhancements, such as mouse pointer and cursor enhancements, color enhancements, and font smoothing. These buttons are blue when the feature is available and gray if the feature is unavailable. The bottom row of buttons is used to control speech functions, and is not used with the version of MAGic installed in the GVSU computer labs.

Visual enhancements available within MAGic

The Magnification button enables or disables magnification. This provides a quick way to turn screen magnification on or off.

HotKey: MAGic Key + Delete

The Magnification Level buttons adjust the level of magnification from 1x to 32x MAGic provides magnification in whole power increments from 2x to 32x and in 1/10th x increments between 1.1x and 1.9x

Increase magnification	MAGic Key + NumPadPlus, or Control + equals
Decrease magnification	MAGic key + NumPadMinus, or Control + dash

The Magnified View List selects the magnification window type. This is used to set preferred type of magnified view from the options of Full, Overlay, Split, Dynamic Lens, and Lens.

- Full - magnifies the entire screen
- Overlay - provides a magnification window that is docked on one corner of the screen. This window follows the mouse pointer or the focus.
- Split - Provides two views of the screen following the mouse pointer or focus. One view is magnified; one is unmagnified and used as a reference.
- Lens - provides a rectangular magnification window that can be dragged around the screen with the mouse or moved by the keyboard as the

- focus changes.
- Dynamic Lens - same functionality as the Lens magnification view, but is automatically resized when controls are selected.

The preferred magnified view setting can be made through the Magnification menu by selecting the Display property sheet. HotKey - Alt-M + D

The View options are listed in a combo box.

View combo box	Alt-V
Magnification level spinbox	Alt-M
Smooth Text checkbox	Alt-S

The Mouse Enhancements button turns mouse pointer enhancements on and off. Mouse pointer enhancements are set by opening the Magnification menu, and selecting Mouse Enhancements. Mouse enhancements include various pointer colors, sizes, and crosshair schemes. The list of available options for both magnified and unmagnified areas of the screen are the same. Magnified and unmagnified areas of the screen can be schemed differently. The settings for these views are set on two separate tabs. Several pre-written schemes are also available.

Mouse Enhancements button HotKey: MAGic Key + F4

Mouse Enhancement Setings for both magnified and unmagnified screen areas

Open Mouse Property Sheet	Alt-M + M
Enable Mouse Enhancements	Alt-E
Color combo box for mouse attributes	Alt-C
Style combo box	Alt-S
Color combo box	Alt-O
Display combo box	Alt-D
Transparency slider	Alt-T
Thickness slider	Alt-K
Length slider	Alt-L
Height slider	Alt-H

Mouse Schemes settings – located on the Mouse Schemes tab

Enable Mouse Enhancements checkbox	Alt-E
Select Scheme	Alt-C
Automatically apply Schemes checkbox	Alt-U
Restore Factory Settings	Alt-R

Cursor Enhancements button turns cursor enhancements on and off.

Cursor enhancements are set though the Magnification menu by selecting the cursor enhancements property sheet. Cursor enhancements include various cursor colors, shapes placed around cursor, and settings for transparency, thickness, and length or the cursor. The list of available options for both magnified and unmagnified areas of the screen are the same. Magnified and unmagnified areas of the screen can be schemed differently. Several pre-written schemes are available.

Cursor Enhancements HotKey: MAGic key + F8

Cursor Enhancement Setings for both magnified and unmagnified screen areas

Cursor Enhancements property sheet	Alt-M + U
Enable Cursor Enhancements	Alt-E
Color combo box for cursor attributes	Alt-C
Style combo box	Alt-S
Color combo box	Alt-O
Display combo box	Alt-D
Transparency slider	Alt-T
Thickness slider	Alt-K
Length slider	Alt-L
Height slider	Alt-H

Cursor Schemes settings – located on the Cursor Schemes tab

Enable Cursor Enhancements checkbox	Alt-E
Select Scheme	Alt-C
Automatically apply Schemes checkbox	Alt-U
Restore Factory Settings	Alt-R

Color Enhancements button turns color enhancements on and off

Color enhancements are set though the Magnification menu by selecting color enhancements. Color enhancement options include inverted brightness, inverted colors, inverted black and white, adjustments for brightness and contrast, various color schemes, and color switching. The list of available options for both magnified and unmagnified areas of the screen are the same. Magnified and unmagnified areas of the screen can be schemed differently. Several pre-written schemes are also available.

Color Enhancements button HotKey: MAGic key + F12

Color Enhancements property sheet	Alt-M + C
Enable Color Enhancements checkbox	Alt-E
Invert Brightness	Alt-G
Invert Colors	Alt-I
Invert Black and White	Alt-V
Restore System Colors	Alt-Y
Adjust Brightness (slider)	Alt-B
Adjust Contrast (slider)	Alt-R
Enable Monochrome and Tint	Alt-T
Color selection	Alt-C
Level	Alt-L
Blend	Alt-N
Enable Color Switching	Alt-S
Color	Alt-O
With Color	Alt-H
List of active color	Alt-A
Replace color	
Exchange color	

Color Schemes settings – located on the Color Schemes tab

Enable Color Enhancements checkbox	Alt-E
Select Scheme	Alt-C
Automatically apply Schemes checkbox	Alt-U
Restore Factory Settings	Alt-R

Resize view allows resizing of magnification window Resize View allows the user to change the size of the split, overlay, or lens magnified view. After a user clicks on the Resize View button the mouse pointer will appear as a bi-directional cross, and allow the user to drag the borders of the magnification window to resize. Usable only in Split, Overlay, Lens, and Dynamic lens magnification views.

No HotKey - this operation requires the mouse

Locator button turns Locator tool on and off. The Locator tool temporarily presents the entire screen unmagnified, and a magnification window with preset visual enhancements. This enables the user to locate and magnify screen objects more easily. The Locator window can be repositioned to a

new region of the screen, and the entire screen re-magnified. Locator style settings are set through the Magnification menu by selecting the Locator property sheet.

Locator HotKeys: Start Locator MAGic key + F10

Stop Locator and remagnify	Move to selected area, press Enter
Stop Locator without moving	Escape
Locator property sheet HotKey	Alt-M, L

Smoothing button turns Smoothing tool on and off. The Smoothing tool removes the jagged edges of letters in magnified view to enhance readability. There may be instances in which it is preferable not to use font smoothing. The Smoothing tool can be accessed through the Magnification menu by selecting the Display property sheet and checking the checkbox labeled Smooth Text.

Display property sheet - Alt-M + D
Smooth Text checkbox - Alt-S.

Speech options available in MAGic Without Speech

Highlight Options are available in MAGic. MAGic Without Speech is interoperable with JAWS for Windows. Users must run JAWS along with MAGic for document and web reading.

Mouse Echo Reads text that is pointed to with the mouse.

Highlight options Highlight Options are available in MAGic Without Speech when JAWS is concurrently running and providing speech for the user. Text can be highlighted as it is read out loud by JAWS. Highlight type and color can be selected.

Highlight options are accessed by opening the Speech menu and selecting Highlight Options.

Highlight Hotkey: Alt-S + H

Settings hot keys

Highlight Style combo box	Alt-H
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Color combo box	Alt-O
Transparency slider	Alt-T
Thickness slider	Alt-K

Speech and reading functions are available in MAGic when used with JAWS

JAWS for Windows is a screen reader designed to allow individuals who have blindness to access and use a computer. JAWS interacts with the Windows Operating System and provides spoken feedback by announcing icon names, menu items, and Windows messages – essentially any visual text information communicated to a user by Windows can be announced to the user. JAWS provides document and web reading functions by the use of various keystroke commands.

Document reading

MAGic will highlight text as it is read if highlighting is enabled.

JAWS key commands for document reading:

The following commands require the NumLock be turned off

"Say All" (Read from cursor location)	Insert + DownArrow
Read character	NumPad 5
Read word	Insert + NumPad 5
Spell word	Insert + NumPad 5 pressed twice
Read previous paragraph	Control + Up Arrow
Read next paragraph	Control + Down Arrow
Read prior word	Control + Left Arrow
Read next word	Control + Right Arrow
Read character to the left	Left Arrow
Read character to the right	Right Arrow
Read line	Insert + Up Arrow
Read current line to cursor	Insert + NumPad 7
Read current line from cursor	Insert + NumPad 9
Read application status bar	Insert + NumPad 3
Read application title bar	Insert + NumPad 1
Start Skim Reading	Control + Insert + Down Arrow

JAWS navigational commands

Move to beginning of line	Home
Move to end of line	End
Scroll up one screen	Page Up
Scroll down one screen	Page Down
Move to top of prior page	Control + Page Up
Top of next page	Control + Page Down

Move to beginning of document	Control + Home
Move to end of document	Control + End

Web reading

JAWS allows web page reading using the same key commands as are used for document reading. Additionally, JAWS uses a feature called the Virtual PC Cursor for reading web pages. This feature allows for switching between frames on a web page, and enables JAWS to read the alternative text tags attached to graphics, and to announce the number of links in a web page frame. More information about JAWS cursors can be found in the JAWS Quick Reference Guide.